

SRD280

Storm Racing Drone

USER MANUAL v1.1



DISCLAIMER

Please read this disclaimer carefully before using this product. This product is a hobby with motors but not a toy which is not suitable for people under the age of 18. By using this product, you hereby agree to this disclaimer and signify that you have read them fully. You agreed that you are responsible for your own conduct and content while using this product, and for any consequences thereof.

Before you fly the drone

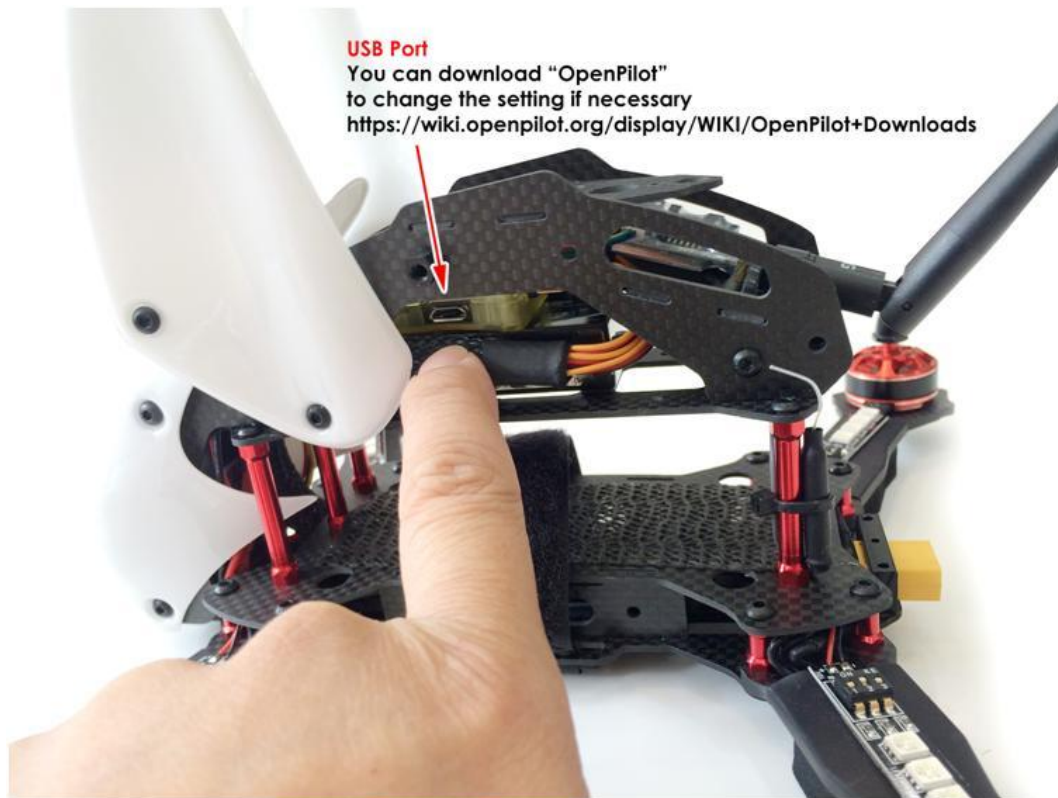
- 1) Make sure all connections are good, and keep children and animals away during flying, firmware update, system calibration and parameter setup.
- 2) Always fly the drone away from unsafe conditions, such as obstacles, crowds, high-voltage lines, etc.
- 3) Do not use in bad weathers such as rainy day, snow, windy (more than moderate breeze), hail, lighting, tornadoes, hurricanes etc.
- 4) Check whether the propellers and the motors are installed correctly and firmly before flight. Make sure the rotation direction of each propeller is correct.
- 5) Check whether all parts of the drone are in good condition before flight. Do not fly with aging or broken parts.
- 6) Never overcharge LiPo batteries. Do not charge above 4.2V per cell. When the battery is fully charged, disconnect it from the charger. Never leave the battery charger unattended during charging.
- 7) Never discharge batteries to below 3.3V per cell
- 8) Remove batteries when not using the drone.

Package includes:



1. Fully Assembled Storm SRD280 w/ Canopy and FPV System
2. Built-in FPV System (Camera and Transmitter)
3. RadioLink AT9 9-Channel Transmitter w/ R9D 10-Channel S.Bus Receiver
4. 14.8V 1800mah 35C Li-Po Battery
5. 6pcs Clockwise 6045 Dual-Blade Propeller (4 of them are spare parts)
6. 6pcs Counter-Clockwise 6045 Dual-Blade Propeller (4 of them are spare parts)
7. SKYRC E4 Battery Charger
8. 1.5 mm Hex Wrench
9. 2.0 mm Hex Wrench
10. 10mm Hex Nut Driver Driver (for motor cap)
11. 5.5mm Hex Nut Cross Wrench (for airframe)
12. SRD280 Stickers (Black and White)

Important Notes





Flight Mode



SRD280 has **Six** flight modes, from beginners to expert.

For Stabilized Mode, The drone has Auto-Leveling that is relatively easy to control.

For Acro Mode, the drone flies very smooth and fast but it is good to fly it with goggles or monitor in open environment.

STABILIZED BEGINNER  Easiest mode to fly, suitable for beginner, casual or FPV flying.	STABILIZED SPORT  Faster mode with auto leveling. It performs like a fast RC helicopter	STABILIZED FREESTYLE  You can do tricks like Roll or Loop, good to impress your friends.
ACRO BEGINNER  Smooth flight that leveling very slowly (Weak Level), try this in large space preferred	ACRO SPORT  Auto-leveling is switched off, very smooth & fast, but <u>fly it with goggles or monitor!</u>	ACRO FREESTYLE  It flies like an Aeroplane, Roll and Pitch angle are unlimited, do tricks the professional way.

Quick Start



- 5.** Place drone on flat surface and wait for 10 seconds.



- 6.** Unlock the system
Mode 2 : (Standard) Left Stick : Right Bottom
Mode 1 : Left Stick : Right; Right Stick: Bottom
- 7.** You can fly now
- 8.** When battery buzzer is beeping (means low battery), please land it immediately.



Control

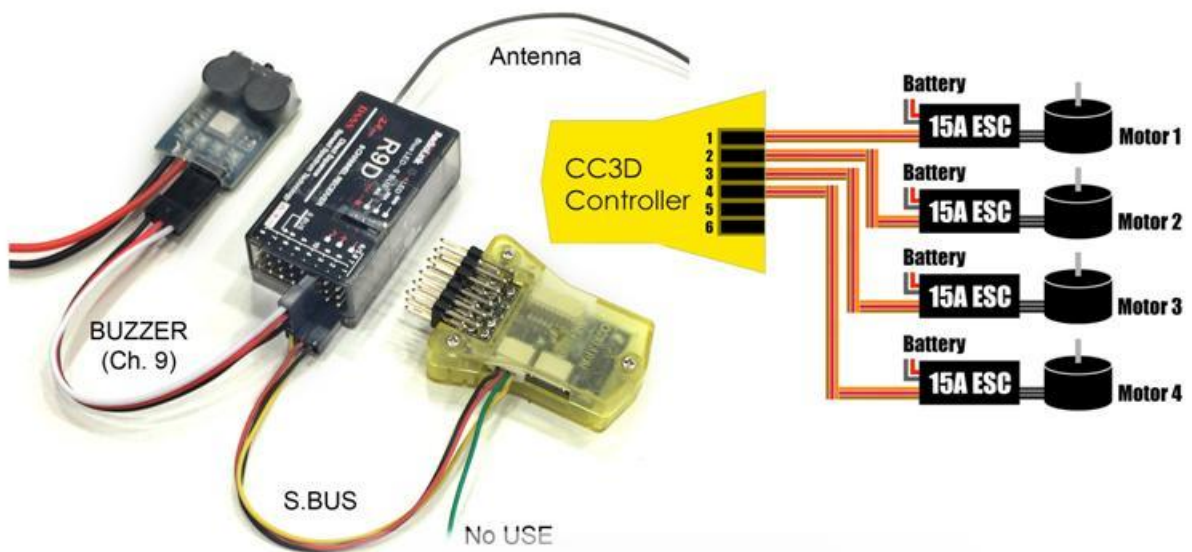
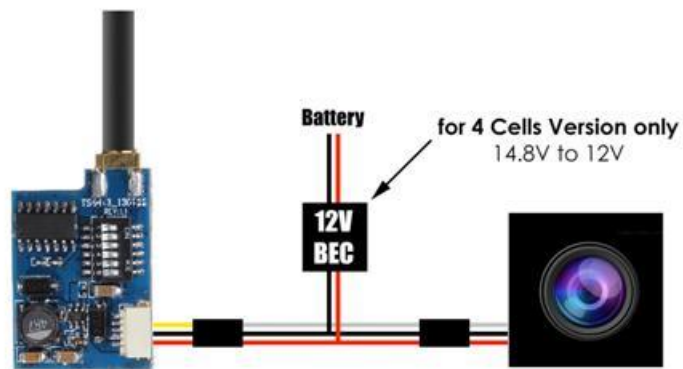


MODE 2 (LEFT THROTTLE)
Standard



MODE 1 (RIGHT THROTTLE)

Circuit Diagram



LED System

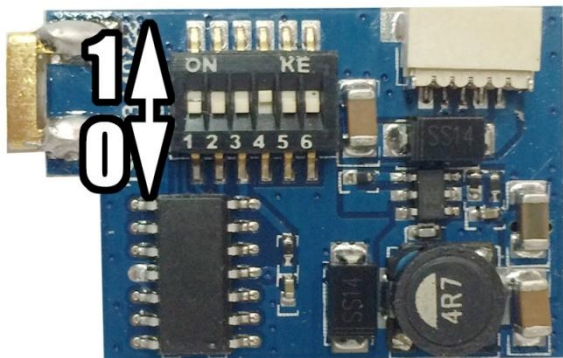
Our LED strip has up to **7** different colors available by setting three DIP switches.

Null	Blue	Red																		
																				
<p>ON</p> <table border="1"><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr></table> <p>1 2 3</p> <p>Blue Red Green</p>							<p>ON</p> <table border="1"><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr></table> <p>1 2 3</p> <p>Blue Red Green</p>							<p>ON</p> <table border="1"><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr></table> <p>1 2 3</p> <p>Blue Red Green</p>						
Green	Ice Blue	Purple																		
																				
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Yellow	White																			
																				
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Actual LED color may differ from the photo due to printing materials

FPV System

Our TS5823 video transmitter has up to **32** different video channels available to avoid interference with other channels.



If two or more drones are flying at the same time, try to select different video frequency to avoid video interference. The bigger different in video frequency between drones, the less interference generated.

Default Setting is channel **5665M**.

Always check the supported channels of you FPV reception devices such as monitor, goggle

Frequency Table

Frequency	Switch (123456)	Frequency	Switch (123456)
5645MHz	001100	5805MHz	001110
5665MHz	101100 (Default Channel)	5809MHz	110010
5685MHz	011100	5820MHz	110000
5705MHz	111100	5825MHz	101110
5725MHz	000110	5828MHz	010010
5733MHz	111010	5840MHz	010000
5740MHz	111000	5845MHz	011110
5745MHz	100110	5847MHz	100010
5752MHz	011010	5860MHz	100000
5760MHz	011000	5865MHz	111110
5765MHz	010110	5866MHz	000010
5771MHz	101010	5880MHz	000000
5780MHz	101000	5885MHz	110100
5785MHz	110110	5905MHz	010100
5790MHz	001010	5925MHz	100100
5800MHz	001000	5945MHz	000100

FAQ

Lost connection with radio controller

If you're the drone cannot response to the radio controller stick travel, the connection between radio controller and receiver may lost and you can try to re-bind them by following the procedure below:



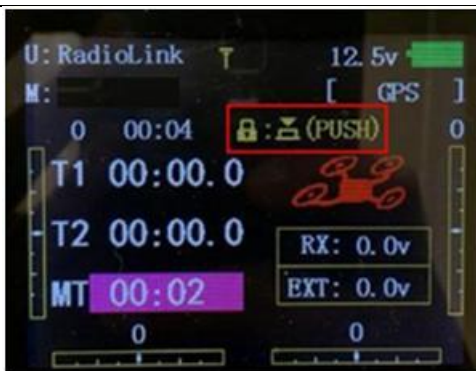
Press the switch inside the receiver **twice** with small screwdrivers to make LED indicator turns **PURPLE** to set the control mode to D Bus Mode. (Skip this step if it is default in Purple light)



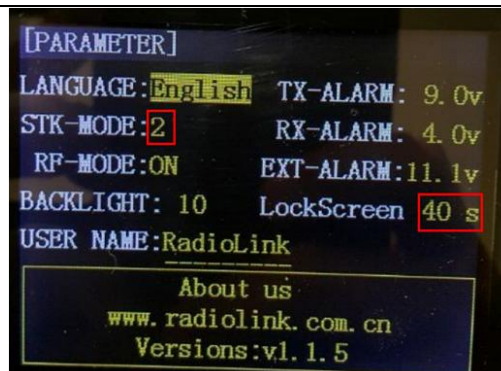
Use the small screwdrivers to press and hold the switch inside the receiver until it is flashing with light in **Blue** and **Purple**, Switch on the radio controller, it will start searching for available receiver. Receiver will stop flashing while the bind process complete and the radio controller will the signal strength on the screen

Radio Controller Parameters

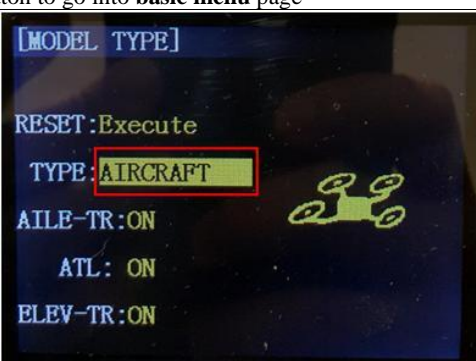
If you reset your radio controller (AT9) setting, you can apply the setting below:



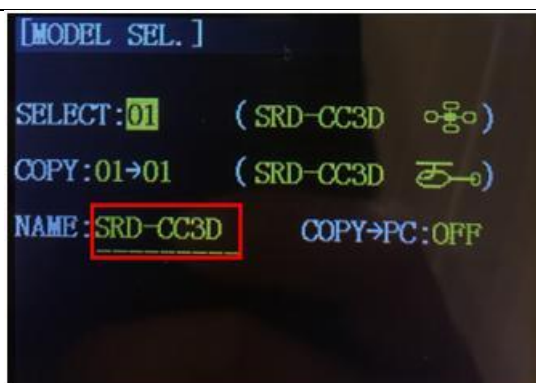
- 1) Press and Hold the controller wheel (With wordings "PUSH") to unlock the manual. Press and Hold Mode Button to go into **basic menu** page



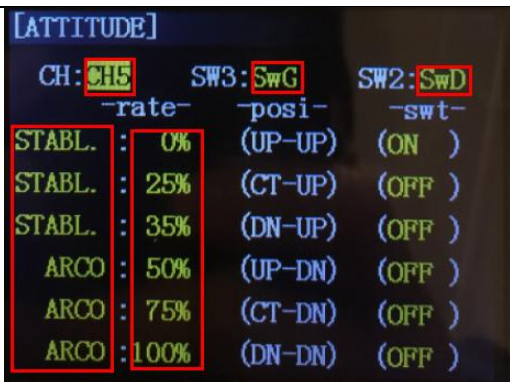
- 2) [STK-MODE] = 2 (Stick Mode)
[LockScreen] = 30s (Time to lock screen)



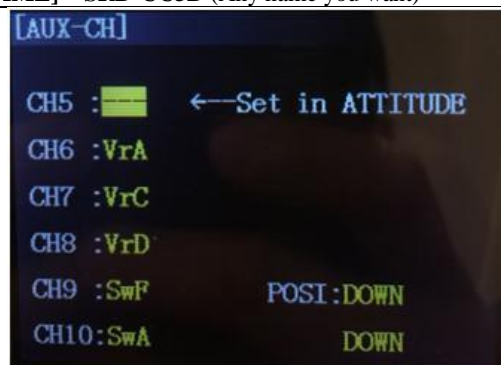
- 3) [TYPE] = AIRCRAFT



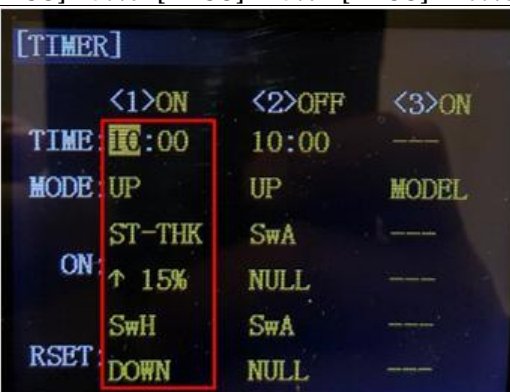
- 4) [SELECT] = 01
[NAME] = SRD-CC3D (Any name you want)



- 5) Go to [AUX-CH] -> ATTITUDE, apply the setting below:
[CH] = CH5 [SW3] = SwG [SW2] = SwD
[STABL.] = 0% [STABL.] = 25% [STABL.] = 35%
[ARCO] = 50% [ARCO] = 75% [ARCO] = 100%



- 6) [CH5] = ----- [CH6] = VrA [CH7] = VrC
[CH8] = VrD [CH9] = SwF [CH10] = SwA



- 7) [1] [TIME] = 10:00
[1] [MODE] = UP
[1] [ON][1] = ST-THK (Using Throttle Stick to start the timer)
[1][ON] [2] = 15% (Move the indicator over the value, set throttle stick to around 15%, Press and hold "Push" button to recognize the throttle value and move the wheel to change the arrow sign)
[1][RESET] [1] = SwH (Using Switch H to responsible for the reset timer action)
[1][RESET] [2] = DOWN (Using Switch H's down action to reset the timer)